

L 13326-63 EFF/SHT(3)/SFT(s)/SHT(m)/SHS Ps-4/Fs-4/Fr-4 EM/SM
ACCESSION ER: AP3002771 S/UZU/63/003/03/0310/0313

AUTHOR: Sen'horskiv. V. G.; Secoslovskays, T. M.; Kiyko, L. D.; Maurusov. M. R.,
TITLE: Index of refraction of Excell albanes at low temperatures

SOURCE: Mettekhimiya, V. S. no.; J.; 1963, 310-313

TOFIC TAGS: refraction index; normal albane, IFF-22 refractometer, benare, hep-tame, octane, nonane, decame, undecame, normal albane refraction index

ABSTRACT: The neasurement of the index of refraction at low temperatures presents a great difficulty. The condensation of sociature on the prisms hinders the measurement. The use of special plastics, as suggested by others, proved to be a failure in this experiment at a temperature below 243K. A new and simple method has been proposed in determining refractive indexes at low temperatures with an IRF-22 refractometer. The refractometer was hermetically scaled inside a methylate how inside of which were placed moisture absorbents which absorbed the sociature condensed on a copper cooling socil before this moisture had a chance to condense on the prisms. This arrangement made possible a measurement of the refractive index at temperatures as low as 160K. The refractive indexes of the following normal alkanes were measured: hermane, heptame, foctane, nonane, decame, Card. 1/2

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	creeses uniformly up t	peratures; the molecular refracts their orystallisation temperatu	on of normal alkanes de- me, Orig. art. bas 1
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# MIGACHEV, G.B.; KIYKO, N.I.

Chemicolegal detection of para-toluidine and meta-dinitrobensene. Sud.-med. ekspert. 6 no.3:49-50 J1-6'63. (MIRA 16:10)

1. Tvanovskoye oblastnoye byuro sudebnomeditsinskoy ekspertizy (nachal'nik - dotsent S.W. Bakulev).
(TOLUIDINE) (HENZENE) (CHEMISTRY, FORENSIC)

IVANOV, P.; MEFOD'YEV, P. (g.Alma-Ata); PERFILOV, M. (g.Sverdlovsk);
KITKO, P., vneshtatnyy instruktor; RZHEVSKIY, Ye.; LIPOVA, K.,
innin,-tekhnolog (g.Baku)

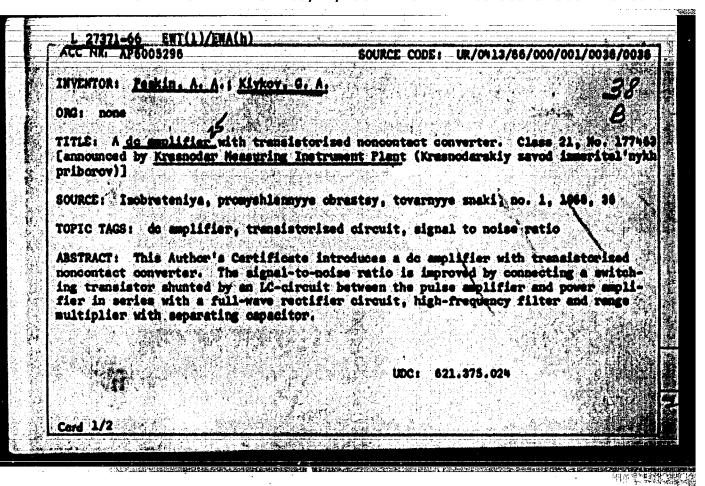
Letters to the editor. Obshchestv. pit. no. 3:50-51 Mr '61.

(MIRA 14:4)

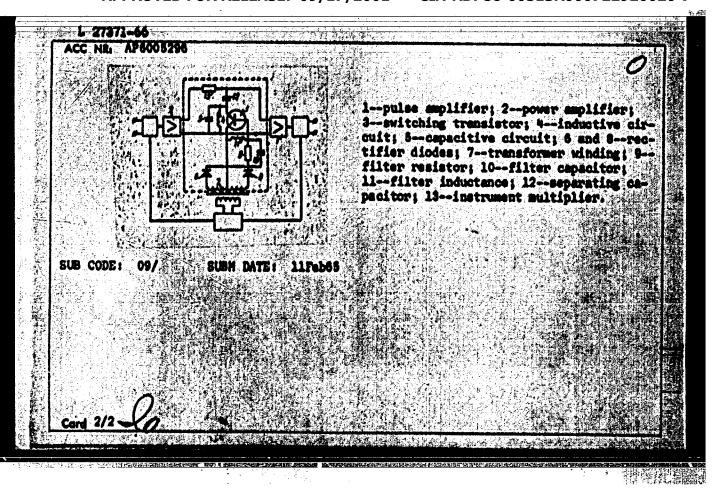
1. Gorodskoy komitet Kommunisticheskoy partii Sovetskogo Soyuma i
Ministerstvo torgovli RSFSR po obshchestvennomu pitaniyu, g.
Ul'yanovsk (for Klyko). 2. Starshiy instruktor-kulinar Chelymbinskogo
oblastnogo upravleniya torgovli (for Rshevskiy).

(Restaurants, lunchrocms, etc.)

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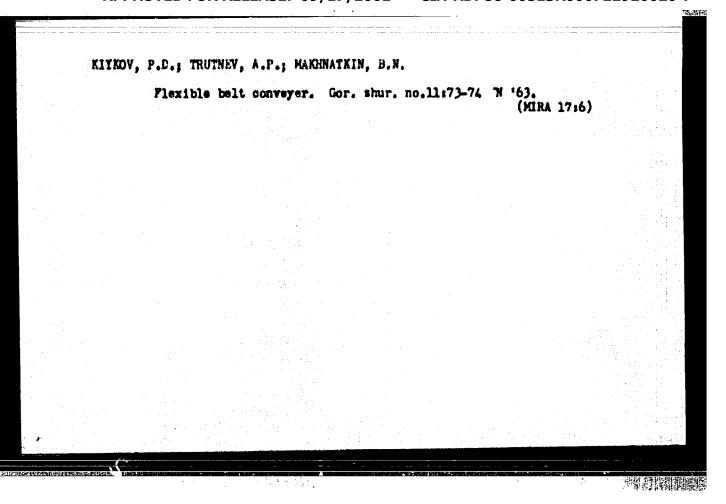
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Making and using sectional reinferced concrete supports in sine
No. 23. Shakht, strai, no.5:27-29 '58. (MIRA 11:6)

l.Leninskeye streitel'neye upravleniye kembinata Karagandashakhtestroy.
(Mine timbering) (Reinferced concrete construction)



KITKOV, P.D., insh.; PETROV, V.S., insh. Readers' response to A.M.Platkin's article "Efficient hole diameter for anchor bolting." Shakht. etroi. 4 (MIRA 13:8) no.9126-27 8 160. 1. Giprouglegorman. (Mine roof bolting) (Platkin, A.M.)

> CIA-RDP86-00513R000722920020-7" APPROVED FOR RELEASE: 09/17/2001

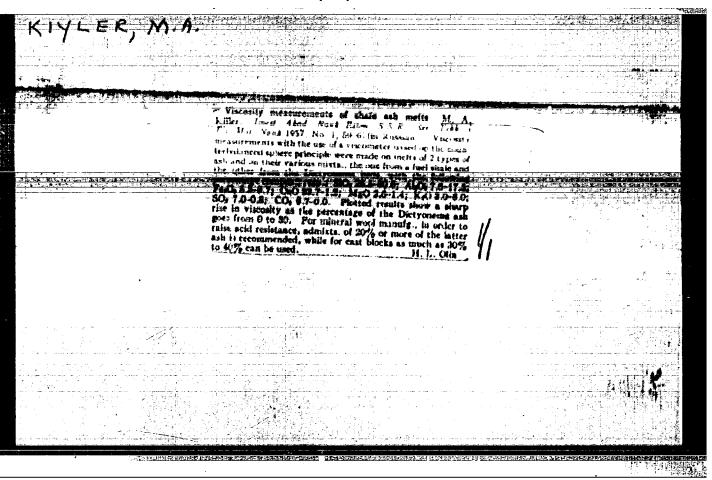
KIYLER, M. [Killer, M.], kand.tekhn.nauk; DILAKTORSKIY, M.L., doktor geol.-mineral.nauk

Orystallisation of shale-ash melts of a composition corresponding to portland queent. Easti tead akad tehn funs 11 no.2:128-139 162.

1. Institut stroitel'stva i stroitel'nykh materialov AN Estonskoy SSR.

KIYLER, M. A., Cand Tech Sci -- (diss) "Investigation of the processes and crystallization of shale ash fusions." Tallinn, 1957, 16 pp (Academy of Sciences USSR. Institute of Chemical Silicates), 100 copies (KL, 36-57, 105)

# "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722920020-7



KIYLER, M. A. and DILAKTORSKIY, N. L.

"Exfoliation of Slate-Kukersite Cinder Melts" p. 201

"Bynthesis and Otrusture of Bydrosilisates containing Simple and Complete Heavy Metal Ontions " p. 36.

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Isd-vo AN SBSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information and coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

KIYN, K	Ya. [Kiin, K.]	
•	Incision of abscesses in traumatic reticulities of cattle.  Veterinaria 38 no.1:57 36:2:161. (HIRA 15:4)	
	1. Olavnyy veterinarnyy vrach Yygevaskogo rayona, Estonskoy SSR. (Stomach-Abscess) (Veterinary surgery) (Cattle-Diseases and pests)	
THE SELECTION OF THE PROPERTY.		1,554,224,010

KIYN, K.Ya. [Kiin, K.], saslushennyy veterinarnyy vrach Estonskoy SSR

Surgical treatment of vaginal prolapse in cows. Veterinarias
40 no.6:58-59 Je '63.

1. Glavnyy veterinarnyy vrach Yfgevaskogo [Jogeva] rayona,
Estonskoy SSR.

ACC NR. AP6019444 /// SOURCE CODE: UR/0308/66/000/002/0039/0039

AUTHOR: Kiyn, S. (Engineer; Specialist in varnish and paint); Orlov. V. (Laboratory Chier)

ORC: Riga Ship Repair Yard (Rizhskiy sudoremontnyy zavod)

B

TITLE: Durable paints for ships

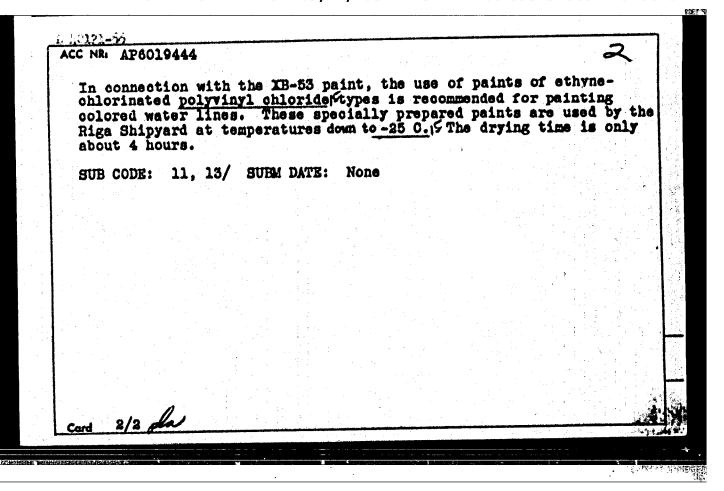
SOURCE: Morskoy flot, no. 2, 1966, 39

TOPIC TAGS: shipbuilding engineering, paint / XB-53 paint, NIVK paint

ABSTRACT: The use of the new XB-53 paint for painting ship hulls is discussed on the basis of experience acquired by Riga Ship Repair Yard since August 1964. The greatest advantage of this paint is its property of quick drying in winter. Two layers of paints need only 2.5 days for drying at a freezing temperature of -5 C, while the old paints of NIVK type need 5 days. In summer, only 1.5 days are required. The XB-53 can be used for painting at temperatures down to -20 C. Itstands up well to the action of air and is less expensive than the paints of NIVK series. However, the XB-53 becomes very toxic in summer and the use of gas masks is prescribed. No gas masks are usually needed in winter.

1/2

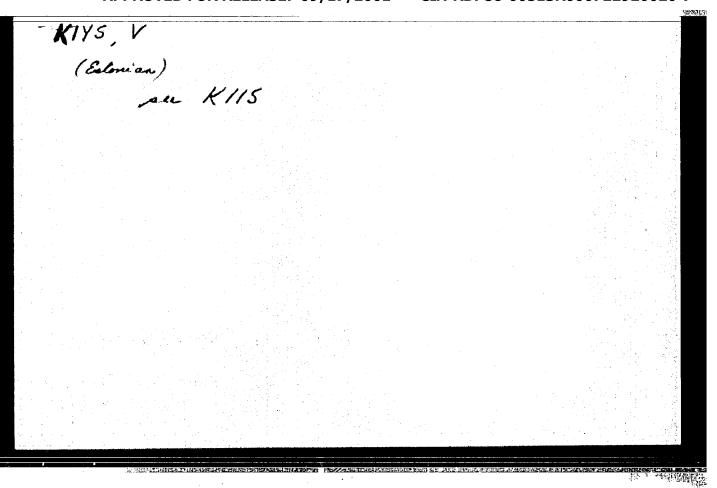
UDC: 621.515.617.1



KITRANES. Ivan Andrevevich; ZHUKOV, A., redaktor; SHEVCHERKO, L. tekhnicheskiy Fedaktor.

Petrosavodsk, Isd.2-oe, perer. 1 dop. Petrosavodsk, Gos.isd-vo harelo-Finskoi SSSR, 1955. 98 p. (MLRA 8:12) (Petrosavodsk--Description)

# "APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722920020-7



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ACCESSION NR: AP4039949

8/0191/64/000/006/0044/0045

AUTHOR: Aarna, A. Ya.; Kiyeler, K. R.; Freydin, A. S.; Sholokhova, A. B.

TITIE: Bynthetic adhesive based on DFK resins from dihydric phenols from oil shale.

SOURCE: Plasticheskiye massy\*, no. 6, 1964, 44-45

TOPIC TACS: DFK resin, diphenolketone resin, adhesive, cement, synthesis dihydric phenol, alkylated resorcinol, condensation, curing, application, commercial production

ABSTRACT: The technology of a two-stage condensation of alkylated resorcinols to produce adhesive resins was worked out. The bulk of the phenols from tar waters (dihydric phenols whose empirical formula approximates that of dimethylresorcinol), when condensed with formaldehyde in the presence of acetone, form stable high quality DFK (diphenolketone) resins. These resins can be cured at room temperature with formalin or at higher temperatures with unotropine. The mechanism proposed for the condensation of alkylated resorcinols with formaldehyde includes the formation of the ether bond as shown by the equations:

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ACCESSION MR:	AP4039949		raid and a familiar on all the property			, p
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ACCESSION NR: AP4041787

8/0191/64/000/007/0069/0062

AUTHOR: Gubenko, A. B., Freydin, A. S., Sholokhava, A. B., Aarna, A. Ya., Kiysler, K. R.

TITLE: Synthetic adhesives based on DFK resins from the divalent phenois of oil shales

SOURCE: Plasticheskiye massy\*, no. 7, 1964, 59-62

TOPIC TAGS: synthetic adhesive, resin, DFK resin, phenol, oil shale, bond strength, adhesion, marshalite, silicon calcite, divalent phenol, adhesive

ABSTRACT: Preliminary experiments showed that among all resins of the DFK type, the most promising for bonding coment materials is the resin DFK-1A. The influence of different fillers on the bond strength of asbestos coment glued with an adhesive based on DFK-1A was therefore investigated in the dry state and after a 24-hour wetting. The best strength characteristics were obtained with ground silicon-calcite, marshalite and hydrophobic sand (the latter produced by the Institut lesokhozyaystvenny\*kh problem AN Latv. phobic sand (the latter produced by the Institut lesokhozyaystvenny\*kh problem AN Latv. SSR (Institute of Forestry Problems, An Latv. SSR) from dune sand treated with wood resin).

Card 1/2

# ACCESSION NR: AP4041787 Addition of aluminum powder to the adhesive (3-5% of the resin) increased the bond strength by 30-50% with marshalite and by 100% with sand. Aluminum powder considerably increased the adhesion to metals. The relationship between bond strength and exposure time was then investigated for a minimum exposure time of 16 hours under pressure. Adhesion was found to be accelerated by heating (60 - 80C). By heating under pressure, the adhesion time could be reduced to 15-30 min. and a higher bond strength was obtained than with cold pressing (50 and 25 kg/cm<sup>2</sup>, respectively). The dependence of complete hardening on the hardening conditions and fillers in the DFK-1A is shown by tabulated data The behavior of the adhesive bond under the influence of high temperature and humidity is discussed, and the possible uses of the adhesive are described in detail. Orig. art. has: ASSOCIATION: None SUBMITTED: 00 DATE SEL: 30Jul64 BNCL: 00 SUB CODE: MT OTHER: 000

KIYSS, I.A.

124-11-13427

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 157 (USSR)

AUTHOR: Klyss, I.A.

TITLE:

To the Calculation of Reinforced-Concrete Structures with Due Con-

sideration of the Creep and Relaxation of the Concrete.

(K ras chetu zhelesobetonnykh konstruktsiy s uchetom polzuchesti i

relaksatsii betona.)

PERIODICAL: Tr. Tallinsk. politekhn. in-ta. 1957, A. Nr. 21, pp ill.

ABSTRACT:

The paper gives a concise summary of the bases of the practical calculation of creep and relaxation, viewing them as two aspects of the after-effect of a stressed state. The transformation of the indispensable integral equations to a system of algebraic equations is shown. For problems that are defined by a single integral equation, two methods of parallel and non-parallel curves (deformation curves for creep and stress curves for relaxation) are provided, based on the works of N. Kh. Arutyunyan (Problems of Creep Theory,

Gostekhteoretizdat, 1952) and F. Dischinger (in "Bauingenieur", 1937, H. 33-40). Recommendations are made on the evaluation of the

Card 1/2

124-11-13427

To the Calculation of Reinforced-Concrete Structures with Due Consideration of the Creep and Relaxation of the Concrete. (Continued)

accuracy of approximations made in the calculations and its improvement. The paper indicates the application of the fundamentals of the theory in the study of eccentric compression of reinforced-concrete elements.

I. K. Snitko

Card 2/2

S/055/63/000/001/003/008
D251/D308

AUTHOR: Kiyushin, V. L.

IITLE: Paracompactness and countable paracompactness

PERIODICAL: Moscow. Universitet. Vestnik. Seriya I. Matematika,
Mekhanika, no. 1, 1963, 35-38

TEXT: Adopting the terminology of A. H. Stone (Bull. Amer. Math.
Soc., v. 54, 977-982, 1948) and E. Michael (Proc. Amer. Math. Soc.,
v. 4, 831-838, 1957; Proc. Amer. Math. Soc.,
v. 54, 977-982, 1948) and E. Michael (Proc. Amer. Math. Soc.,
v. 54, 977-982, 1948) and E. Michael (Proc. Amer. Math. Soc.,
v. 4, 831-838, 1957; Proc. Amer. Math. Soc.,
v. 54, 977-982, 1948) and E. Michael (Proc. Amer. Math. Soc.,
v. 54, 831-838, 1957; Proc. Amer. Math. Soc.,
v. 4, 831-838, 1957; Proc. Amer. Math. Soc.,
v. 54, 831-838, 1957; Proc. Amer. Math. Soc.,
v. 54, 977-982, 1948) and E. Michael (Proc. Amer. Math. Soc.,
v. 54, 831-838, 1957; Proc. Amer. Math. Soc.,
v. 58, 822-828, 1957;
Amer. Math. Soc

Paracompactness and countable ... 8/055/63/000/001/003/008

to inscribe a star-finite covering. The results of Michael may be extended to countably-paracompact sets, and the special cases of the spaces of V. V. Proisvolov and V. V. Nemytekiy are cited among the examples.

ASSOCIATION: Kafedra vysshey geometrii i topologii (Department of Higher Geometry and Topology)

SUBMITTED: April 20, 1962

Card 2/2

KIYUTSHIKOV, N.G.,

SUBJECT

PERIODICAL

USSR / PHYSICS KIJUCNIKOV, N. G.

CARD 1 / 2

PA - 1677

AUTHOR TITLE

On the Rectifying Properties of Silver Selenide and Silver

Telluride. Zurn.techn.fis,<u>26</u>,fasc.11, 2603-2603 (1956)

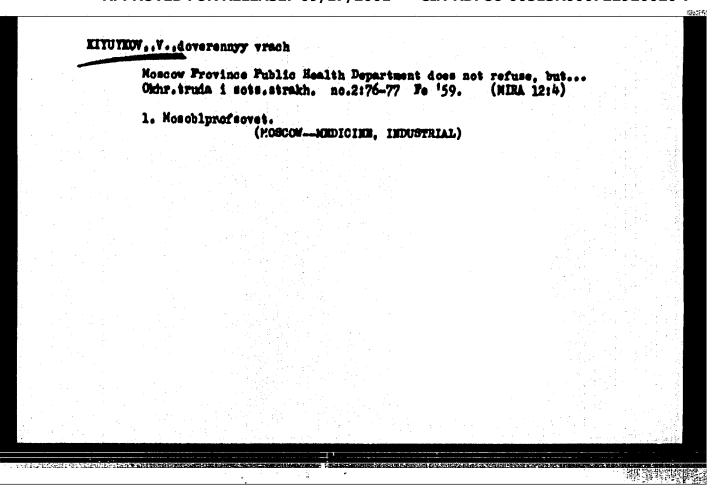
Issued: 12 / 1956

Like the previously described copper selenide, these compounds have some rectifying properties. The author produced these compounds by smelting the corresponding quantities of selenium or tellurium with silver. From the substances thus produced plates were then cut out. The rectifying properties of these substances become effective only after a corresponding forming in a constant electric current. During the forming process the selenide or telluride plate was firmly compressed between a magnesium- and a copper plate, and an electric current is made to pass in the nondenducting direction (when the magnesium plate is the cathode). At the place of contact between the silver selenide or silver telluride and the silver a spark is occasionally to be noticed and amperage gradually diminishes by some thousand times. Because of the considerable heating of the samples forming should be interrupted from time to time. Forming is particularly difficult in the case of silver telluride and it takes 10 to 12 hours. The "valves" obtained have interesting volt-ampère characteristics with high quotients (current flowing backwards / current flowing forward). In the case of silver telluride this ratio in some samples attains 1 : 18000 and 1 : 19000. The forward flowing current is very

 $Z_{u}$ rn.techn.fis, 26, fasc.11, 2603-2603 (1956) CARD 2 / 2 PA = 1677 powerful because of the good conductivity of the samples, e.g. with  $Ag_2$ Se about 2  $V \sim 17$  a/cm<sup>2</sup> and with  $Ag_2$ Te about 1,4 V up to 40 a/cm<sup>2</sup>. The current flowing backwards at 12 V in the case of  $Ag_2$ Te is  $\sim$  12 milliampères, and with  $Ag_2$ Se  $\sim$  16 milliampères/cm<sup>2</sup>.

The barrier layer forms by the reduction of a thin selenide- or telluride layer by magnesium: Mg + Ag<sub>2</sub>Te + 2 Ag. The existence of such a reaction was found by means of chemical methods. The valves described rectify an alternating current very badly. Thus, the amperage of a rectified current in the case of Ag<sub>2</sub>Se at a voltage of 1 V is about 1 a/cm<sup>2</sup>, but in this case the sample is heated considerably. The Ag<sub>2</sub>Te hardly rectifies an alternating current at all. This can be explained by the fact that these valves are slightly deformed by the passage of a current flowing in a forward direction and need some considerable time to become fully formed. Deformation takes place also if the valves are conserved. Weak valve properties are found also in other selenides and tellurides, particularly in the compounds of thallium and bismuth. This asymmetry in conductivity is produced only after the described exchange reactions and it occurs only by contact with reduction media which are as strong as magnesium, aluminium, and calcium. This is nearly a verbal translation of this short report.

INSTITUTION:



LYAKHOVSKIY, V.N., kand.tekhn.nauk; BERRSTOVENKO, K.M., insh.; ZAYTSEV, R.V., insh.; ZIZ', A.M., insh.; SIBIRKO, A.W., insh.

Choosing the optimum red line over difficult terrain using electronic digital computers. Tribsp. stroi. 12 no.2:42-43 F '62. (MIRA 15:7) (Electronic digital computers)

# Method of recommissioning the roller covers of the 8-80 tractor. Rate. i isobr. predl. v stroi. no.79:28-29 '54. (Tractors) (Tractors)

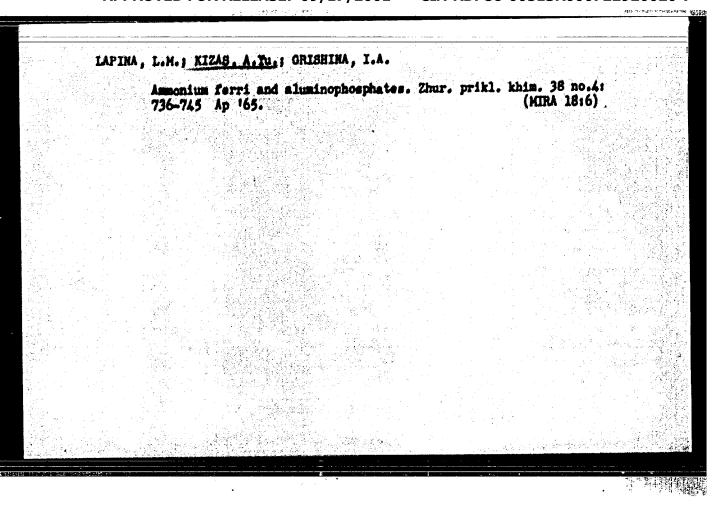
MENKOVSKIY, M.A.; GORDON, S.A.; NURMINSKIY, N.N.; ANTYKOV, A.P.; KIZAS,
A.Tu.; USACHEVA, N.I.

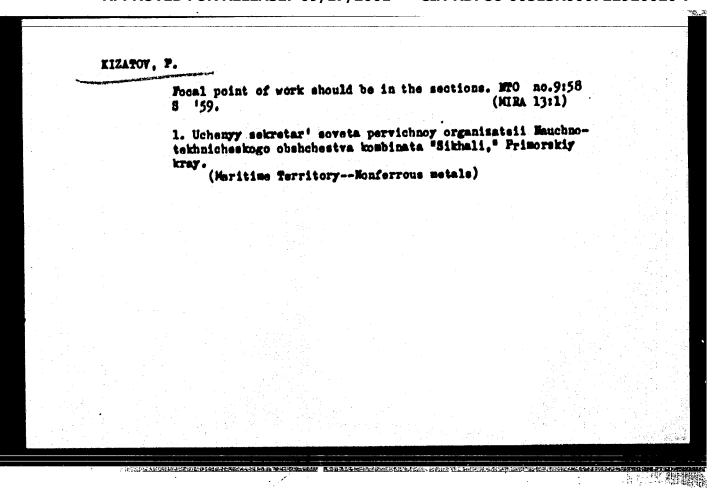
Exchange of experience. Zav.lab. 28 no.11:1321 '62.

(MURA 15:11)

1. Moskovskiy gormyy institut (for Menkovskiy, Gordon, Nurminskiy).
2. Nauchnyy institut po udobreniyam i insektofigisidam imeni
Ya.V.Samaylova (for Kisas, Usacheva).

(Chemistry, Analytical)





Results of active help. HTO 2 no.5:51-52 My '60. (MIRA 14:5)  1. Pervichnaya organizatsiya nauchno-tekhnicheskogo obshchestva tavetnoy metallurgii kombinata "Sikhali", Primorsiy kray. (Maritime Territory—Monferrous metals)	, KIZATO	OV, P., unbenyy sekreter!	
Asuatuno matallupoii kombinata "Sikhali". Primorsiy Kraya	The second control of	Results of active help. NTO 2 no.5:51-52 My 160. (MIRA 14:5)	
		Assistance matellinesii kombineta "Sikhali". Primorsiy Kraye	

MEZHRHNIKOV, A., insh.; KIZATOV, P., starshiy insh. po tekhnicheskoy informatsii; GERASIHOV, Ye.; GGRBAREV, V.; KUSTEMKO, P.

Exchange of experience. Isobr.i rats. no.5122 My '62.

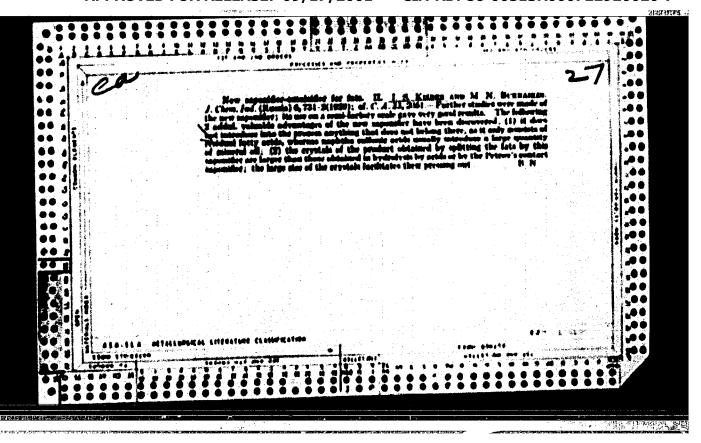
(MIRA 1515)

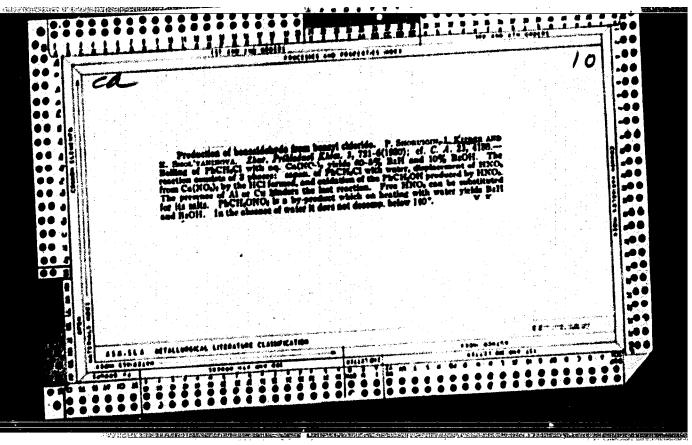
1. Byuro tekhnicheskoy informatsii Karbyuratornogo savoda,
 Leningrad (for Mahamnikov). 2. Kombinat "Sikhali", pos. Tetyukhe,
 Primorskiy kray (for Kisatov). 3. Chlen presidiuma oblastnogo soveta
 Vessoyusnogo obshchestva isobretatelay i ratsionalisatorov, g.
 Izkutsk (for Gerasimov). 4. Sekretar' oblastnogo soveta Vessoyusnogo
 obshchestva isobretatelay i ratsionalisatorov (for Kostenko).

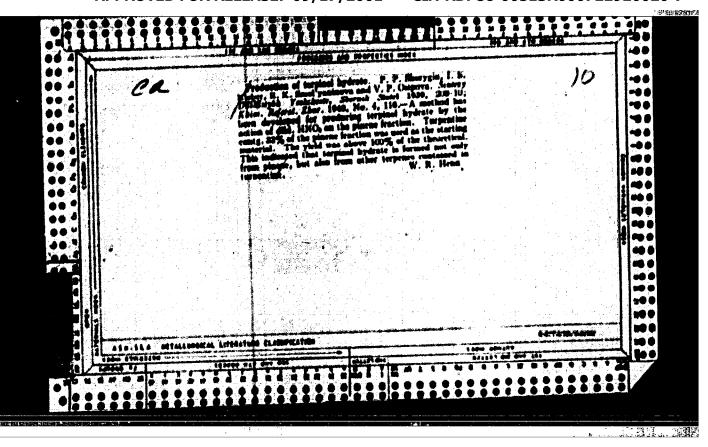
(Technological innovations)

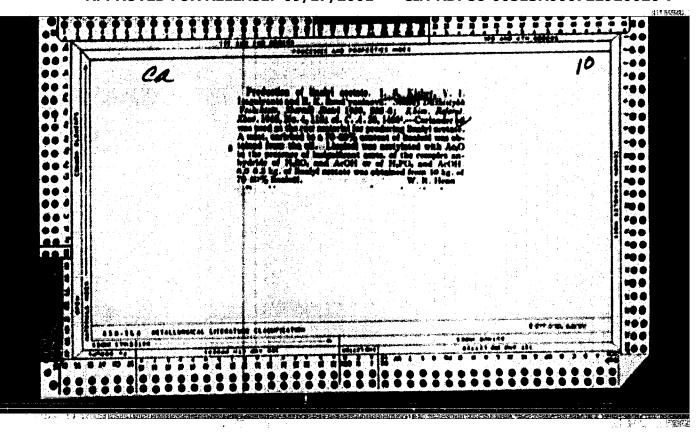
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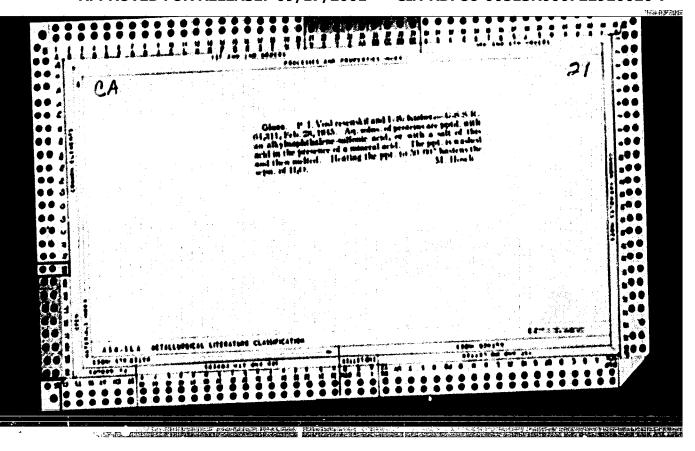
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	mistry	see IIC	

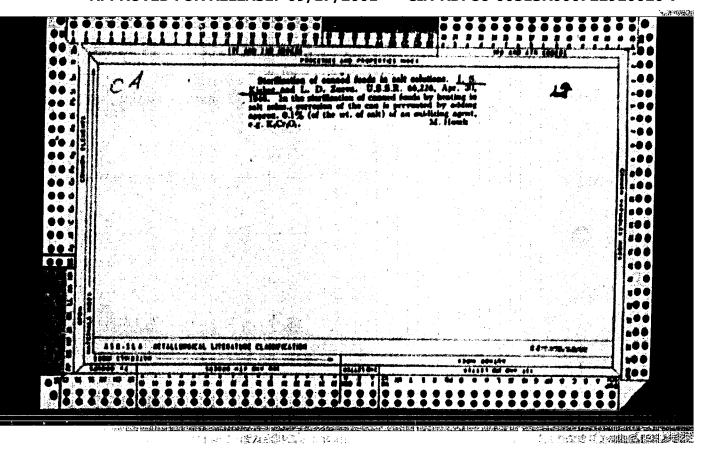


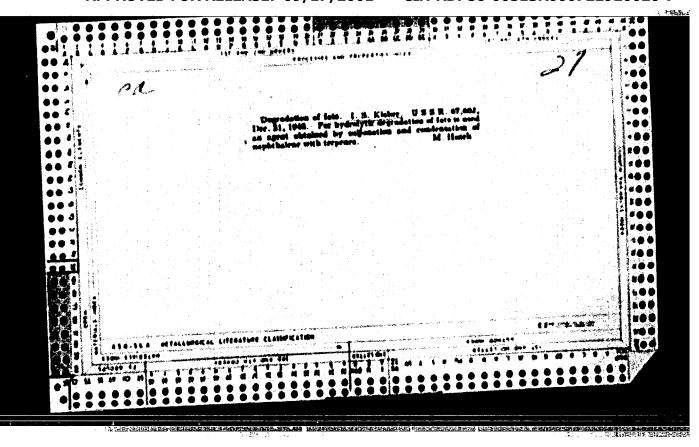


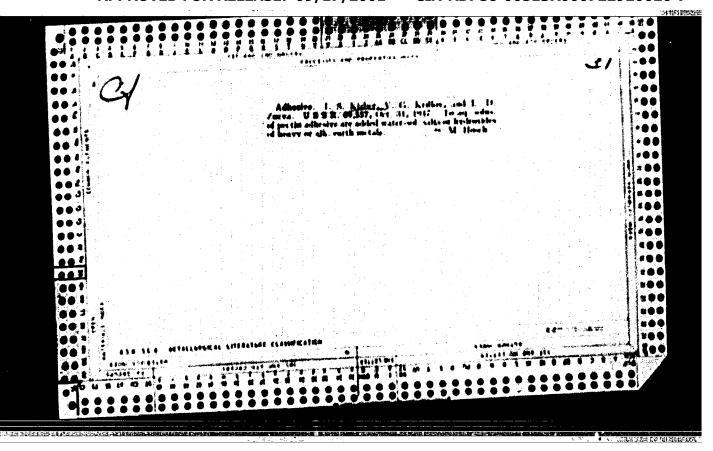


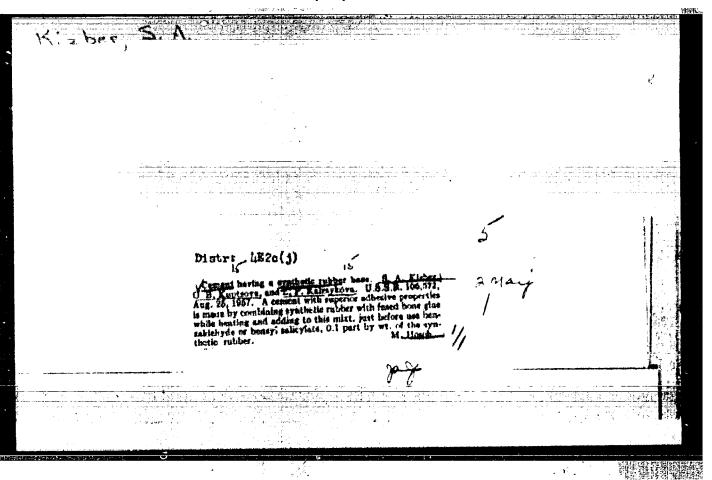












BORTHYAK, Akim Mikolayevich [Bortnisk, IA.M.]; KIZCHRIKO, A.F., kand.
istor.mauk, etv.red.; MYAKUSHKO, V.P. [M'iskushko, V.P.], red.

[Democratic Republic of Vietnam] Demokratychna Respublika
V'ietnam. Kyiv. 1960. 39 p. (Tovaryetvo dlia poshyrennia politychnyth i naukovyth snam\* Ukrains\*kol RSR. Ser.3, no.?)

(Vietnam, Morth)

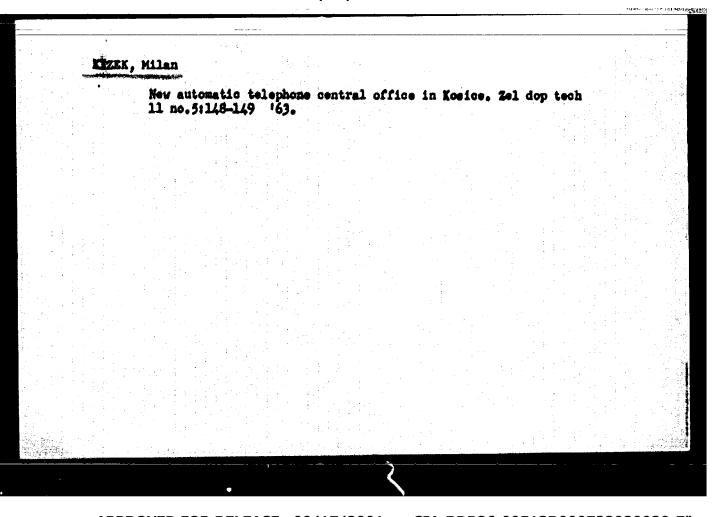
(Vietnam, Morth)

KIZCHENKO, Anatoliv Fedorovich, kand. istor. nauk; TSVETKOV, G.M.

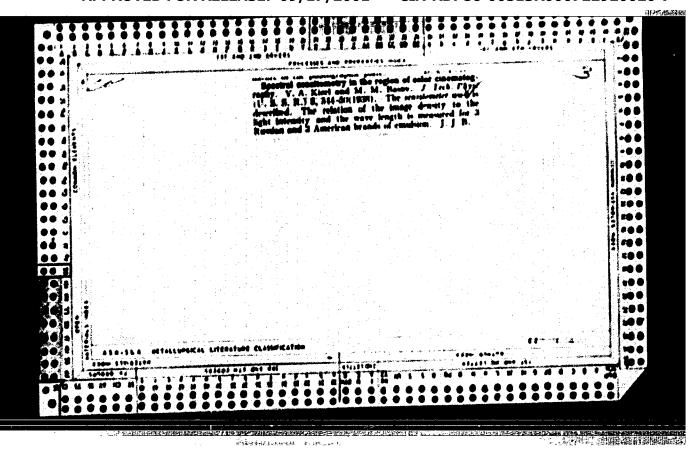
[TSvetkov, H.M.], kand. istor. nauk, civ. red.; TEPLYAKOVA,
A.S., red.; MATVIICHUK, O.A., tekhn. red.

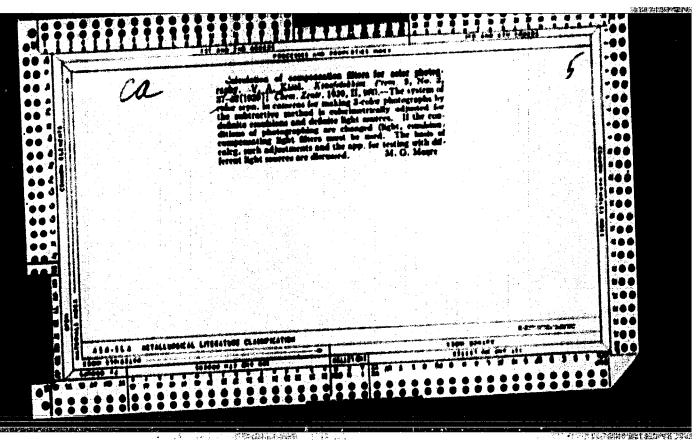
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no.11)

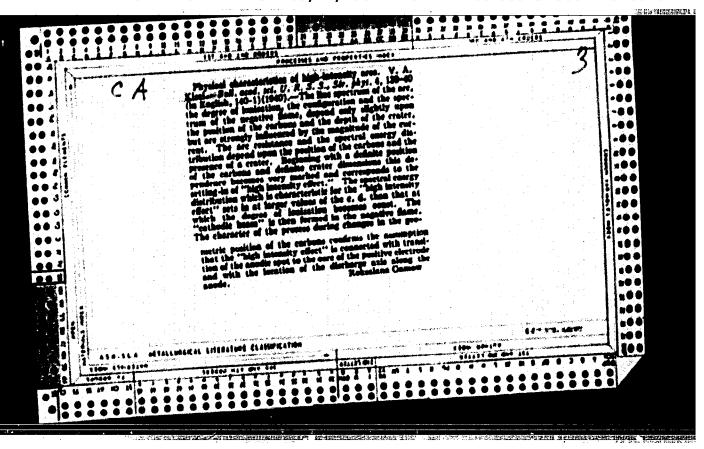
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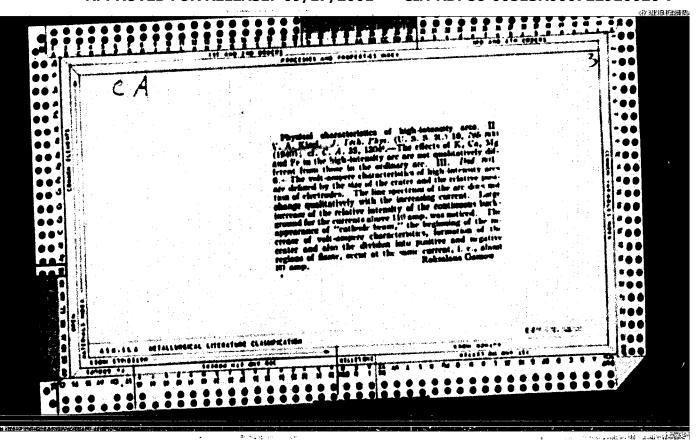


# KIZEL K. L. [Kiesel, K.-L.] Measurement of electromotive forces between slag and liquid motal, and its application to the control of the open-heart process. Min delo 17 no.9139-45 S 162.









USSR/Physics - Surfaces of Fluids

PD-623

Card 1/1

KINEL TA AA

: Pub. 146-13/18

Author

: Kizel', V. A.

Title

: Studying the structure of the surface of fluids by the method of

reflected light

Periodical .

: Zhur. eksp. i teor. fiz. 26, 228-233, February 1954

Abstract

: Measures the elliptic polarization of light reflected from the surface of a fluid when incident at the Brevter angle. This study is conducted for several fluids. Gives curves for the dependence of the coefficient of ellipticity and the phase difference between the components in the reflected ray on the angle of incidence (very close to the Brewster angle). A comparison of the results is made with the existing theory and possible reasons for the divergences

are indicated.

Institution : Uzbek State University

Submitted

: 5 July 1953

KIZEL', V. A.

"Results of a Study of the Structure of the Surface of a Liquid by the Method of Measurement According to the Degree of Ellipticity of Polarisation of the Light Reflected From the Surface", a paper presented at the second conference on the liquid State of Matter, Kiev, 30 May to 3 June 1955, Usp. Piz. Nauk, April 1955

USSR/Physics, Surface Structure, Liquids K. 281, V. II.

PD-3342

Card 1/1

Pub. 146 - 14/28

Author

: Kizel, V. A.

Title

: Study of surface structure of a liquid by means of reflected light

Periodical

: Zhur. Eksp. i Teor. Fiz., 29, No 5, 658 668, 1955

Abstract

: Sixty liquids were studied by measuring the elliptical polarization of light reflected from the liquid surface and incident at Bruger's angle. The relation of this effect to temperature and to short orientation order was investigated. The structural change of the surface near the solidifying point and its relation to overcooling was established. Indebted for cooperation to A. F. Stepanov, G. D. Pridatko, A. N. Mirumyants and Prof. I. P. Tsuker-

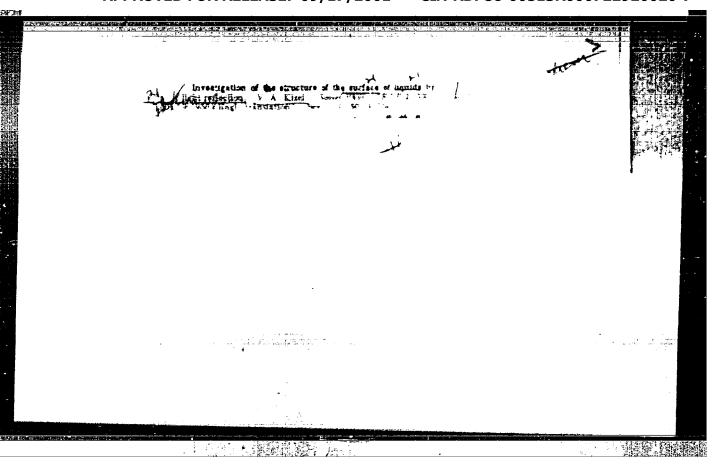
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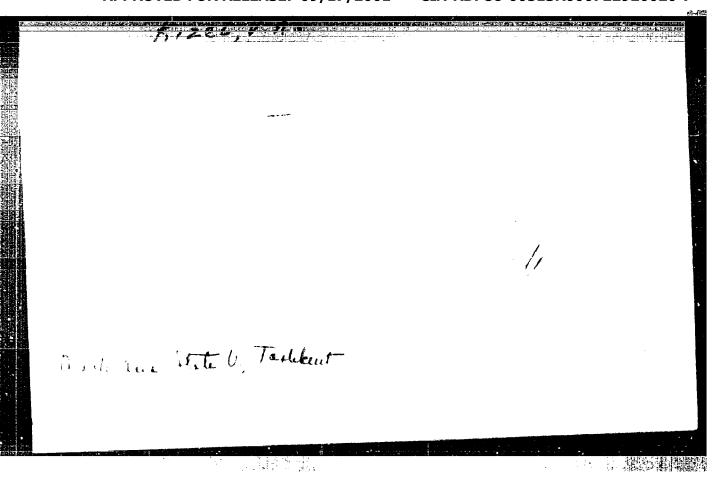
Institution

: Uzbek State University

Submitted

: July 2, 1954





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Light reflection technique for studying the surface structure of liquid. Trudy SAGU no.91:43-54 '57. (MIRA 11:2) (Surface tension) (Reflection (Optics))

80V/51-5-4-20/21

AU THORE :

Kisel', V.A. and Safronova, U.I.

TITLE:

Luminescence of Dyes in Viscous and Solid Solutions (Lyuminestsentsiya krasiteley v vyaskikh i tverdykh rastvorakh)

PERICOTCAL: Optika i Spektroskopiya, 1958, Vol 5, Hr 4, pp 482-483 (USSR)

ABSTRACT:

When a molecule is excited its luminescence may be diminished or prevented by radiationless transfer of energy to internal rotation, torsional deformation, etc. Such a transfer of energy is made more difficult or impossible on increase of viscosity of solutions. The present paper reports investigations of the dependence of the yield (Fig 1) and spectral composition (Figs 2, 3) of luminescence on viscosity for 12 dyes; (1) fuchsin; (2) quinoline yellow; (3) acridine yellow; (4) suramine; (5) chrysoidine; (6) methyl orange;

(7) Congo red; (8) light-fast yellow; (9) bensonsurin;

(10) 3,3-diethylthiacyanine-p-tolusulphonate; (11) pinacyanol; (12) 3,3-diethylthiadicarbocyanine iodide. Measurements were made using the method described in Ref 2, but a photoelectric spectrophotometer was used in the present case. Fig 1 shows that the luminescence yield falls with decrease of viscosity for all dyes.

card 1/2

SOV/51-5-4-20/21

Luminescence of Dyes in Viscous and Solid Solutions

The curve for fuchsin (Fig 1, curve 1) agrees with the results reported in Refs 2, 3. The fall of the luminescence yield with decrease of viscosity is accompanied in all dyes by displacement of the luminescent maximum towards longer wavelengths (Figs 2, 3). The magnitude of this displacement is roughly proportional to the rate of fall of the luminescent yield. The authors thank I.I. Levkoyev and E.S. Levin for supply of the dyes used and M.D. Galanin for discussions of this work. There are 3 figures and 7 Soviet references.

ASSOCIATION: Moskovskiy fisiko-tekhnicheskiy institut (Moscow Physico-Technical Institute)

SUBMITTED: April 23, 1956.

Card 2/2

1. Dyes--Luminescence 2. Luminescence--Measurement 3. Spectrophotometers
--Applications

24(4), 24(7) AUTHORS:

Kizel', V.A. and Rubinov, V.M.

SOV/51-7-1-9/27

TITLE:

Optical Properties of Concentrated Solutions and Melts. I. (Opticheskiye svoystva konteentrirovannykh rastvorov i rasplavov. I.)

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 1, pp 62-70 (USSR)

ABSTRACT:

The refractive index n and the absorption coefficient % of concentrated solutions of nitrosodimethylaniline, fuchsin, crystal violet, rhodamine 62h, methylene blue and of bromine were found by the selective reflection method. The solvent used was aniline and measurements were made on solutions with a wide range of concentrations. A monochromator 210R-2 with automatic recording was employed. An incandescent lamp was used as the light source and photo-elements TaV and STaV were used as the receivers. A special cell was constructed for these emperiments. It is shown in Fig 1, where A is the incident beem, B is the light reflected from the front surface of a wedge-shaped glass wall 1, C is the light reflected from a solution and recorded by a monochromator S, D is the light transmitted by the solution and 2 is a mirror. The results of measurements are shown in Figs 2-7 in the form of plots of the reflection coefficient R against frequency. Figs 10 and 11 show absorption by aqueous solutions of rhodamine 62h, while

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507/51-7-1-9/27

Optical Properties of Concentrated Solutions and Melts. I.

With the same

Fig 12 shows absorption by aniline solutions of the same dye.
Comparison of the experimental curves with those calculated using the classical theory of dispersion and Davydov's quantum theory (Ref 1) showed clearly the superiority of the Davydov theory. It was found also that the oscillator strengths of dye solutions decrease with concentration when intermolecular distances are of the order of 10-50 Å; it is suggested that this is due to coupling between absorption oscillators. There are 12 figures, 2 tables and 15 references, 11 of which are Soviet, 3 English and 1 German.

SUBMITTED: July 14, 1958

Card 2/2

20729

24,3300 (1051,1106,1227)

S/051/61/010/004/007/007 E032/E314

AUTHORS: Kizel', V.A.

Kizel', V.A. and Permogorov, V.I.

PERIODICAL Photo-electric Spectropolarimeter

PERIODICAL: Optika i spektroskopiya, 1961, Vol. 10, No. 4, pp. 541 - 544

TEXT: The instrument described in the present paper was designed to measure the magnitude and dispersion of natural optical activity and magnetic rotation although it can be used for other polarisation measurements. A block diagram of the apparatus is shown in the figure. The light diagram of the apparatus is shown in the figure. The light (depending on the spectral region under investigation). The apparatus incorporates the MACL (UM-2) monochromator and the polariser and analyser are in the form of Glan prisms the beam diameter being 8 mm. The image of the exit slit leaving the polariser is modulated by a Faraday cell working at a frequency of  $\sqrt{2}$  485 c.p.s. If the specimen under

Photo-electric ....

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investigation does not rotate the plane of polarisation, then light transmitted through the crossed analyserpolariser system is modulated at a frequency of 24. In the presence of rotation an off-balance signal having a frequency V is present. The latter is detected by a system consisting of a photomultiplier (\$27.29 (FEU-29)), a narrow-band amplifier tuned to the frequency (bandwidth 15 c.p.s.), a synchronous detector and an output microammeter. In this way, photomultiplier and amplifier noise can be considerably reduced. Interference is prevented by screening the electrical circuits and the photomultiplier by iron and copper screens. The above frequency is also convenient from the point of view of reducing mains interference. The measuring procedure consists of reducing the reading on the output micro-ammeter to a minimum by rotating the polariser (the angle of the polariser can be read to within 0.001). The analyser remains fixed in order to avoid changes in the sensitivity of the photocathode. The amplitude of the oscillations in the plane of polarisation introduced Card 2/7

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Photo-electric ....

by the Faraday cell is determined as follows. With the polariser and analyser in the crossed position the transmitted light intensity is given by

$$I_{m} = I_{s} + I_{o} \sin^{2} \alpha$$

where a is the angle of rotation of the modulator,

1 is the intensity of light incident on the analyser and

I is the intensity of light scattered in the analyser and the preceding component.

The scattered intensity is then assumed to be given by

$$I_s = \alpha I_o + bI_m$$

and hence the off-balance signal per unit angle of rdation is given by

$$5 \cdot \frac{\Delta T_m}{\Delta a} \cdot \frac{I_o}{1 - h} \sin 2a$$

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Photo-electric ....

Experiments showed that the main source of noise in the detecting apparatus is the photomultiplier. It may therefore be assumed that

$$S_n * cI_m^2$$
.

The signal-to-noise ratio is therefore characterised by the quantity

$$A = \frac{S}{S_n} = \frac{\sin 2\alpha}{(a + \sin^2 \alpha)^2} \cdot \frac{1 - b}{I_o c}$$

From this expression it is found that A = 0.01, A = 0.1 A =

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Photo-electric ....

is superior to that described by Gillham (Ref. 3). The cell was in the form of a thin-walled tube filled with a-bromo-mphthalems having a large Verdet constant. It is exceedingly important for the windows of the container to be non-birefringent. The accuracy is ± 0.003 deg. This accuracy can be maintained for specimen densities up to 0.8. Acknowledgments to G.I. Gorchakov and V.I. Letokhov, who took part in the development of the device; Yu.V. Denisov is thanked for directing the design of the oscillator. There are 1 figure and 5 non-Soviet references.

SUBMITTED: October 31, 1960

card 5/7

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S/051/61/010/004/007/007 E032/E314

Photo-electric ....

Figure: Block 1 - modulator; Block 2 - recording apparatus;
Block 3 - supplies for the recording apparatus;
Block 4 - Faraday coil; Block 5 - light source. JH;

[Ak 3] strip and Krypton lamps, respectively; M - monochromator;

[A - lenses; J, A - polariser and analyser;

[O - specimen; D)[] - photomultiplier.

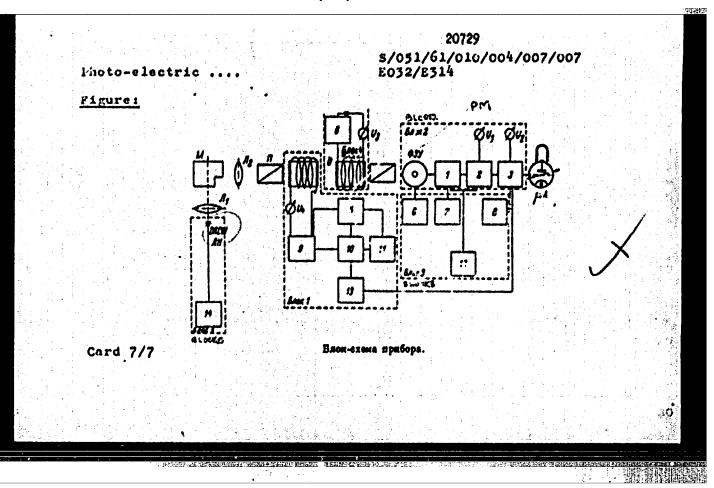
[O - specimen; D][] - photomultiplier.

[O - pre-amplifier; D - narrow-band amplifier; D - synchronous detector; A - vacuum-tube micro-ammeter; D, 6, 7, 8 - supplies;

[O - power amplifier of the modulator; D - pre-amplifier;

[O - pre-amplifi

Card 6/7



### RUBINOV, V.M.; KIZKL', V.A.

Note on the correlation of processes of the inductive interaction of excited and nonexcited molecules. Isv. AN Us. SSR. Ser. fis.-mat. neuk no.4:63-66 '61. (MIRA 14:9)

1. Kauchno-issledovatelskiy institut sudebnoy ekspertisy Yuridioheskogo komiteta Soveta Ministrov Usbekskoy SSR. (Molecular dynamics)

# Absorption spectra of solid films of dyes. Isv. AN Us. SSR. Ser. fis.-mat. nauk no.4196-98 '61. (MIRA 1419) 1. Mauchno-issledovatel akiy institut sudebnoy ekspertisy Yuridicheskogo komiteta Soveta Ministrov Usbekskoy SSR. (Dyes and dyeing) (Absorption spectra)

RUBINOV, V.H.; KIZEL', V.A.

Optical properties of concentrated solutions, melts, and files of dyes. Part 2. Opt. i spektr. 15 no.4:512-521 0 '63. (MIRA 16:11)

KIZEL', V.A.; KRASILOV, Yu.I.; SHAMRAYEV, V.N.

Achromatic \*1/47, appliance. Opt. i spektr. 17 no.3:461-463 S '64.

(MIRA 17:10)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722920020-7"

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, i	AUTHORS: Kizel', V. A.; Krasilov, Yu. I.; Shamrayev, V. B.  TITLE: Investigations of the optical activity arising in the crystalline state. I.	
	SOURCE: Optika i spektroskopiya, v. 17, no. 6, 1964, 863-870 TOPIC TAGS: optical activity, crystalline state, polarization, second order phase transition	
はまではない。 は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、は、	ABSTRACT: In view of the scarcity of experimental material on optical activity of crystals, the authors report on measurements of the dispersion of optical activity of the hitherto investigated crystals of ethylenediamine sulfate, sodium bromate, β-quarts, and benzyl. Measurements of the dispersion of rotation were made by two methods which supplemented and checked each other photoeletrically (with a specially developed spectropolarimeter) and photoeletrically	d
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graphically. The spectropolarimeter, which was described elsewhere (Opt. i spektr. v. 10, 541, 1961), was modified to cover the range from 2300 Å to 2  $\mu$ . The optical system of the photographic polarimeter is shown in Fig. 1 of the enclosure. The spectral instruments were either DFS-3, ISP-51 with UF-85 attachment, or ISP-30, depending on the wavelength. The accuracies of the photoelectric and photographic methods were 0.5 and 3% respectively. The measurements were made at liquid-nitrogen temperature and at 700°, and iron lines were used as standards. Other details of the procedure are described. The measurement data were compared with the theoretical formulas and the agreement ranged from 1 to 4%, depending on the substance. The behavior of the optical activity during a second-order phase transition was also examined, but no conclusive data were obtained. Orig. art, has: 5 figures and 10 formulas.

ASSOCIATION: None

SUBMITTED: 10Nov63

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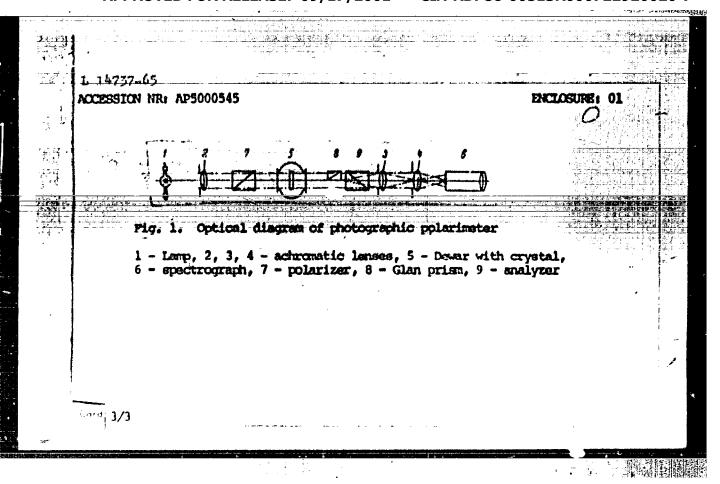
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Harris (Miller)



PEREKALINA, Z.B.; SHRYREV, G.D.; MIRFMSKIY, A.V.; PERMOCOFOV, V.I.;

KIZEL', V.A.

Photoelectric spectropolarizater for measuring the rotation of the light polarization plane in crystals. Kristallografiia 10 no.2:270-272 Mr-Ap '65. (MIRA 18:7)

1. Institut kristallografii AN SSSR.

E-T(1)/T/EE(b)-2 IJP(c)/SSD(c)/ASD(a)-5/AFD(t)

AP5003032 ACCESSION NR:

8/0051/65/018/001/0123/0129

AUTHOR: Kizel', V. A.; Krasilov, Yu. I.; Shamrayev, Y. R.

113

TITLE: Investigation of optical activity produced in the crystalline state. II. Sodium-uranyl-acetate

SCURCE: Optika i spektroskopiya, v. 18, no. 1, 1965, 123-129

STREET OF F

TOPIC TAGS: optical activity, crystalline state, circular dichroism, optical dispersion, absorption band, dispersion curve, temperature variation, sodium uranyl acetate

ABSTRACT: The authors have measured the dispersion of the optical activity of sodium uranyl acetate and its circular dichroism simultaneously with some investigations of its absorption spectrum. The technique of measuring the dispersion of the optical activity and the construction of the cryostats employed were described in the first part of the article (Opt. i spektr. v. 17, 863, 1964). The setup for measuring circular dichroism is illustrated in Fig. 1 of the enclosure. Some new bands were observed and the dichroic bands were found to be asymmetrical. The dichroic bands shift and deform with variation of the temperature. A detailed

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study of the behavior of the 4,732 R band with variation of temperature has shown that the maximum wavelength and the half width of the band vary with temperature linearly for temperatures above 120--130K. At lower temperatures the variation is very weak. The dispersion of the optical activity was investigated in greatest detail for the 4,732 Å band. The disperson curve is asymmetrical and also is noticeably shifted and deformed with variation of temperature. The measurements have shown that an appreciable circular dichroism is retained for the 4,732 X band even at room temperature. An appreciable increase in the dichroism begins below 130--150K. "We are grateful to N. D. Zhevandrov and V. M. Agranovich for useful discussions." Orig. art. has: 6 figures, 3 formulas, and 1 table.

ASSOCIATION: None

SUBMITTED: 10Hov63

SUB CODE: OP

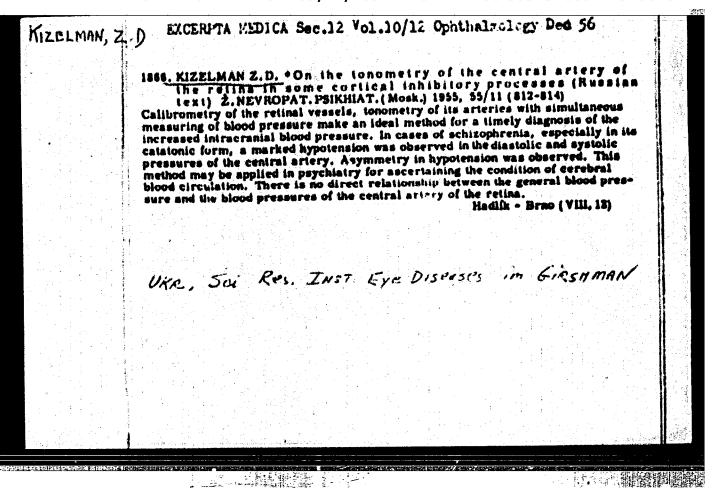
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ACC NR. AR6016195	SOURCE CODE: UN/0058/65/000/011/10	27/1027
AUTHOR: Rubenov, V. M.;		73
TITIE: Spectroscopic ma	anifestations of intermolecular interactions in concent f the change of the emission and absorption oscillator	Burated
SOURCE: Ref. sh. Fisika	A, Abs. 11D212	
	po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 297-301	
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fabs and f <sub>emit</sub> of the subtemps ascribe the observed efferinteraction. [Translation]	distance, and also the overlap of the absorption and lumice of association in the solutions has made it possiblect to the influence of the industry.	of mines-

ACC ME" AP6813350 SOURCE CODE: UR/0363/63/002/004/0693/0701 AUTHOR: Denisov, Yu. V.; Dzhurinskiy, B. F.; Kizel', V. A. ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut); Institute of General and Inorganic Chemistry im. N. S. Kurnakov, Academy of Sciences 888R (Institut obshchey i neorganicheskoy khimii Akademii nauk 88810 TITLE: Structure of glasses of the Na<sub>2</sub>O-B<sub>2</sub>O<sub>2</sub> system activated with rare earths. Europium. SOURCE: AN SSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 4, 1966, 693-701 TOPIC TAGS: borate glass, europium compound, luminescence spectrum ABSTRACT: The emission and absorption spectra of glasses of the Na<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub>-Eu<sub>2</sub>O<sub>3</sub> system (prepared from Na<sub>2</sub>CO<sub>3</sub>, Il<sub>3</sub>BO<sub>3</sub>, and Eu<sub>2</sub>O<sub>3</sub>) were studied at room and liquid nitrogen temperatures using apparatus of high dispersion and sensitivity. The absorption spectra undergo little change with temperature. The form of the luminescence spectra depends on the frequency of the exciting light, not on the europium concentration. It is postulated that two types of lumines cence centers of unlike coordination exist. The duration of luminescence was measured for certain lines. As the Na<sub>2</sub>O content rises, the transfer of energy to the lattice increases. The strongest interactions between an Eu<sup>3+</sup> ion and its surroundings take place at the highest and the lowest Na<sub>2</sub>O content, at which the homogeneity of the field around the ion is greatest. The asymmetry of the field increases with the Na<sub>2</sub>O content. The authors are sincerely grateful to S. L. Mandel'shtam for providing the facilities for the work, to M. D. Galanin for useful discussions 1/2 UDC 646, 33+646, 273 Card F 440 4

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30: U-30/2, 11 March 53, (letopis 'Zhurnal 'nykh Statey, No. 8, 1949).	zapiski (Ukr. nauch186100. 1948, p. 44-46.	Ther of carmotof in the	
	so: U-30/2, 11 March 53, (1	etopis 'Zhurnal 'nykh Statey	, No. 8, 1949).



## Modification of the caliber of retinal vessels in cerebral tumors. Vest. of the caliber of retinal vessels in cerebral tumors. (MRA 9:8) 1. Is Ukrainskogo nauchno-issledovatel'skogo instituta glasnyth bolesney iseni prof. L.L.Girshmana (dir. ohlen-korrespondent AME SSSE prof. I.I.Merkulov) (BEAIM, naoplasss, retinal vassels in, changes of caliber (Rus)) (HETIMA, in various diseases, cancer of brain, changes of vasc. caliber (Rus))

## KIZHL MAN, Z.D., kand, med, nauk

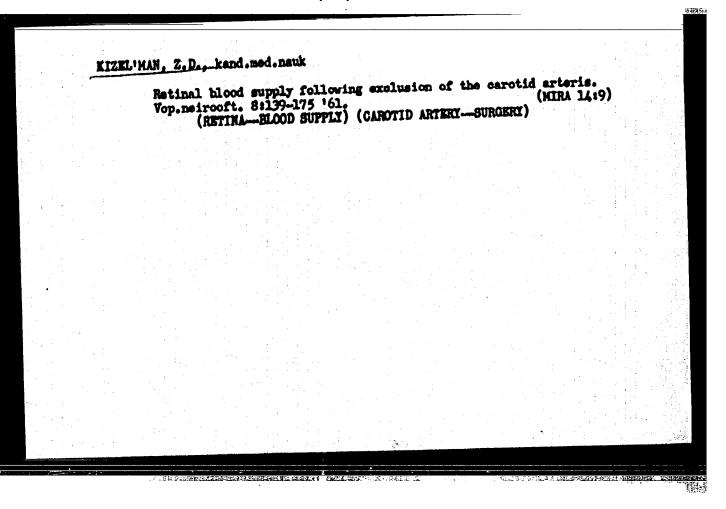
Treatment of acute disorders of the arterioretinal blood circulation with acetylcholine. Report no.1. Oft.shur. 12 no.5: (MIRA 13:6)

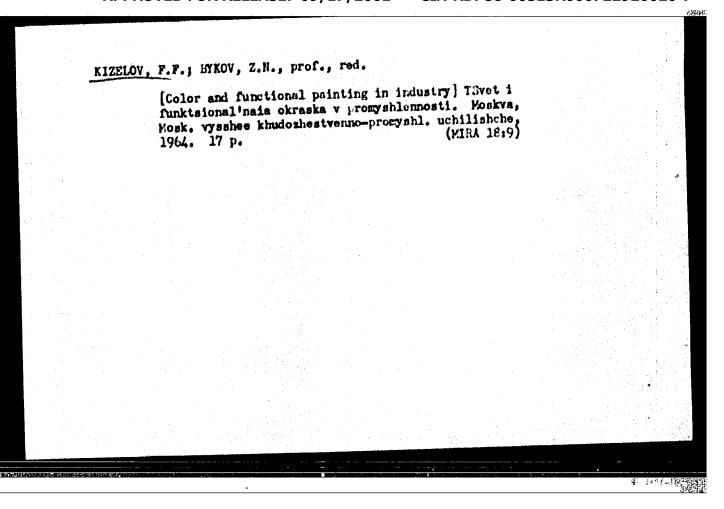
1. Is Ukrainskogo nauchno-issledovatel'skogo instituta glasnyth bolesney imeni prof. Girehmana (direktor - oblen-korrespondent ANN SSER prof. ILI. Nerkulov). (HETIMA--DISMASES) (CHOLINE)

### KIZEL'MAN, E.D., kand.med.nauk

Device for graduating and taring the ophthalmodynamometer.
Oft.shur. 13 no.4:211-215 58 (MIRA 11:8)

1. Is Ukrainskogo nauchno-issledovatel'skogo instituta glasnykh bolezney im. L.L. Girhamana (direktor - dhlen-korrespondent AME SSSR prof. I.I. Merkulov). (MYR. INSTRUMENTS AND APPARATUS FOR)



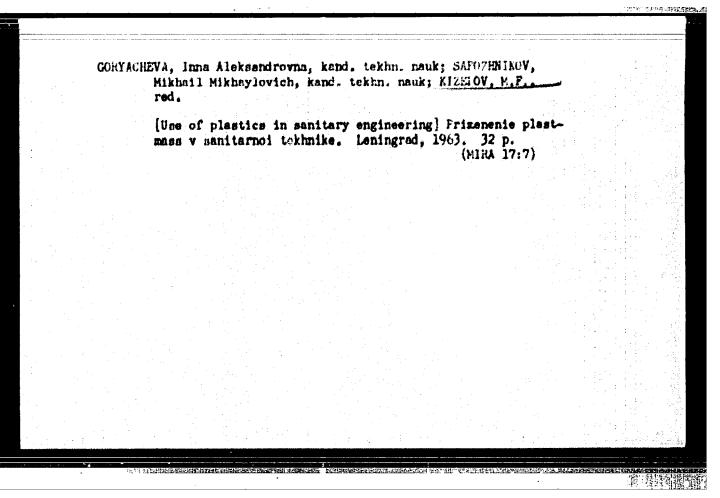


KUBERTA, M.M., tekha,red.

[Preparing concrete mimes] Proektirovenie sostava betona.

Leningrad, Leningr.dom nauchmo-tekhn.propagandy. Pt.1.
1958. 34 p. Pt.2. 1958. 29 p.

(Concrete)



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